

Cambridge Assessment International Education

Cambridge Ordinary Level

GEOGRAPHY 2230/02

Paper 2 Skills

October/November 2017

MARK SCHEME
Maximum Mark: 60

Published

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Cambridge O Level – Mark Scheme **PUBLISHED**

Question	Answer	Marks	Guidance
1(a)(i)	State the four-figure reference for the grid square containing the village of Horningsea located in the north-east of the map.	1	
	4962		
1(a)(ii)	What is the distance along the river from 490625 to 480604? Describe the method you used and give your answer in kilometres. 2.3–2.7 (km) [RESERVE]	2	Credit measuring idea if poorly expressed but candidate appears
	measure along the river using a piece of paper / string convert using the scale / from cm to km		to understand and has done it correctly.
1(a)(iii)	If you walk along the riverside from Horningsea to Cambridge city centre (grid square 4458), what is the number of the National Cycle Network you would meet?	1	
	11		
1(a)(iv)	Give a six-figure grid reference for the location where the A14 road crosses over the river.	1	
	483 / 4 616 / 7 or 436 / 7 616 / 7		
1(a)(v)	In which general compass direction is Cambridge city centre from Horningsea?	1	
	SW		
1(b)(i)	Estimate the size of the built-up area shown on Fig. 1.	1	Need km ²
	11–13 km ²		
1(b)(ii)	Use the map extract to identify the developments at positions X, Y and Z on Fig. 1. Write your answers on Table 1 below.	3	
	new development position (X, Y or Z) hospital Y business park X road Z		

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Question	Answer	Marks	Guidance
1(b)(iii)	More than 2300 new houses are planned for the shaded area A on Fig. 1. Use map evidence to explain why this is a good location for new housing. flat land for ease of construction near railway for accessibility near Cambridgeshire Guided busway / light rapid transit system for access to town near road / motorway for transport near hospital for medical treatment when ill near school for children near government offices / business park for work open space / farmland for low cost of construction away from CBD for cheaper land near city for shops	3	Must explain but can be simple, examples shown Max. 2 for transport NOT water supply low land
1(c)(i)	If you travel to Cambridge by car from the south, which motorway exit would you take? 11 / A1309	1	ALLOW M11 NOT A1301 A1307
1(c)(ii)	Name three other types of transport, shown on the map, that can be used to travel to Cambridge. train / railway guided busway / bus / Park and Ride cycle (path) aeroplane / airport / helicopter boat / river / ferry / ship	3	NOT road motorway car motorcycle walk

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Question	Answer	Marks	Guidance
1(c)(iii)	Use map evidence to describe the tourist features shown in this area. Country Park Caravan site / camp site Golf Course Picnic site Nature reserve Parking / Park and Ride Viewpoint National Trail / European Long Distance Route	3	NOT cycle route cycle network resrs forest reserve Named places, e.g. Fox Hill farms park

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Question	Answer	Marks	Guidance
2(a)	Compare the production and consumption of natural gas in Brunei between 2000 and 2012.	3	Must compare
	Any three comparisons but no repetition. OVERALL Production (always) more than consumption The more production there is, the more consumption there is / they are directly proportional Difference 2000 same / similar to difference 2012 / 2000 and 2012 difference is c310 Both increase overall Production fluctuates more than consumption P increase from c350 to c425, C increases from c40 to c110 P increase by c75, C increases by c70 SPECIFIC DATES (refer to Fig. 3 to check accuracy) 1 mark for each correct comment relating to any dates. No repetition, so only allow both increase or both decrease once unless slow, fast used. For example: 2000 both P and C lowest 2000 to 2003 both increase 2004 to 2005 P same, C increases 2006 to 2008 highest P and C / 2006 P highest, 2008 C highest 2006 – 2008 P decreases, C increases 2009 to 2012 both fluctuate / both increase then decrease		ALLOW + or – 5 for figures Only credit stats for overall comparisons Question not from 2000 to 2012 so car be any comparison between those dates.
2(b)	Use the information in the table below to complete Fig. 4, a pie chart showing Brunei's exports in 2014. See overlay 1 mark for accurate line 1 mark for correct shading product percentage oil 52% gas 44%	2	Can plot 52 or 44 Ignore width of horizontal lines for oil or cross hatching for gas.

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Question	Answer	Marks	Guidance
2(c)(i)	What percentage of Brunei's exports go to China?	1	
	2–4 (%)		
2(c)(ii)	Describe Brunei's export trade shown on Fig. 5. Only Asia and Oceania / mostly to Asia Japan biggest amount almost half / c45% to Japan South Korea second biggest / followed by South Korea c15% to South Korea India / Australia / New Zealand 6–8% Vietnam / Thailand / Indonesia / China small amount / <5% Singapore least amount / 2% New Zealand furthest	3	+ or – 1 for Japan, South Korea, Singapore NOT There are 10 different countries
2(c)(iii)	Suggest one reason to explain the amount of oil and gas exported to Japan from Brunei. Japan does not produce oil / gas Brunei is 'close' to Japan / both in Asia Japan is a major industrial country / large car manufacturing industry / many factories To generate electricity	1	NOT large demand on its own MEDC on own High population on own

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	. 652.6.125		2011
Question	Answer	Marks	Guidance
3(a)(i)	Five coastal features (A to E) are marked on Photograph A. Which letter on Photograph A shows each feature? Write your answers on Table 2 below. One answer has been completed for you.	4	Allow E only once
	 natural arch bay [cliff beach headland B 		
3(a)(ii)	Use evidence from Photograph A to suggest why tourists are attracted to this area. Sea + blue / calm / swimming / fishing / water sports, etc. Beach + sandy / golden / sun bathing / picnic / large, etc. Scenery / natural landscape / environment + dramatic / beautiful / photographs / coastal features / named feature Blue skies + good weather / sunny Footpath / hill + on cliff top / walking / bird watching Clean + beach / sea / no litter No repetition	3	NOT just: sea beach blue sky footpath scenery on own Nice view = 0
3(b)(i)	What is the general trend from 2002 to 2009 for both attractions shown on Fig. 6? Both increase / fluctuating	1	
3(b)(ii)	Which attraction received the greatest overall increase in visitors from 2002 to 2009?	1	
	Corfe Castle		
3(b)(iii)	In which year did Corfe Castle receive more visitors than Swanage Steam Railway?	1	
	2003		
		i	

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Question	Answer	Marks	Guidance
4(a)(i)	On Fig. 7 complete the bar graph using the data shown below the graph. See overlay	1	NOT needed: 70 above bar
4(a)(ii)	Compare the rate of growth of solar power before and after 2010. before 2010 slow, after fast / slower before 2010 / faster after 2010	1	Must refer to rate not just amount
4(b)(i)	What percentage of Brunei's energy production came from oil in 2010? 24(%)	1	
4(b)(ii)	Use Fig. 8 to describe the projected changes to Brunei's energy production between 2010 and 2035. Gas decrease by $8\frac{\%}{6}$ oil increase by $6\frac{\%}{6}$ solar contribution in $2035 / 2 - 3\% /$ increases from $0 /$ introduced / new energy source	3	No credit for straight lift of figures. Need %
4(c)(i)	On flat land big / covers large area middle of grassy area fenced near housing / residential / settlement near road 4 areas of panels in rows tilted at angle / panels facing same direction blue colour in rows on concrete base rectangular panels	2	NOT Panels close together Near buildings Open area

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Question	Answer	Marks	Guidance
4(c)(ii)	Suggest <u>two</u> reasons why Brunei wants to develop renewable energy production such as the solar power plant shown in Photograph C.	2	Solar and other renewable = 0 as in stem of question.
	oil and gas non-renewable / finite / will run out / renewables won't run out to diversify / energy mix / so that not dependent on oil and gas oil / gas cause air pollution / renewables are clean / non-polluting / eco-friendly		No double credit for opposites.
	to reduce CO ₂ emissions / global warming cost of oil and gas increasing Brunei suitable for because		NOT cheaper

Question	Answer	Marks	Guidance
5(a)(i)	A 'megacity' is a city with more than how many million people?	1	NOT 10 000 000 million
	10 (million)		10 000 000 million
5(a)(ii)	How many cities are in category 1 on Fig. 9?	1	
	7		
5(a)(iii)	Name a megacity in Africa.	1	
	Cairo / Lagos		
5(a)(iv)	Name a continent with no megacities shown on Fig. 9.	1	NOT
	Europe / Oceania / Antarctica / Australasia		Australia
5(b)(i)	Which city is projected to have the greatest increase in population from 2010 to 2025?	1	
	Delhi		

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Question		Answer						
5(b)(ii)	(b)(ii) Complete Table 3 by ranking the five largest cities from 1 to 5 for 2025. Ranks 6–10 have been completed for you.						1 mark if ranks 1 and 2 correct	
	City Tokyo Delhi Mexico City New York Sao Paulo Shanghai Mumbai	2010 pop (millions) 36.9 21.9 20.1 20.1 19.6 19.6	2010 rank 1 2 3 4 5 6 7	2025 pop (millions estimate) 38.7 32.9 24.6 23.6 23.2 28.4 26.6	2025 rank 1 2 5 6 7 3		2 marks if ALL correct	
5(b)(iii)	Lack of housi Lack of clean Not enough p Poor sanitatio Overcrowding Air / water / la Lack of health Not enough s Unemployme Crime	ing / shanty towns water cower supply / electricit on / hygiene g / traffic congestion and / noise pollution h care / hospitals schools ent / not enough jobs	ty	growth of megacities.		3	NOT Overpopulation Poverty Food Disease Note: Crime OK for this question but not Paper 1 question on population growth.	

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